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Author(s)	Li, Yu
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Measuring the scalar property of predicates: the intensifier *xãl3* in Zauzou

Yu Li

University at Buffalo, SUNY

1. Introduction

Zauzou is an endangered Lolo-Burmese language spoken by approximately 2100 members of the Nu nationality, mostly living on the banks of Lancang River, Lanping Country, Nujiang Prefecture, Yunnan Province in mainland of China (Sun et al, 2002). This paper describes the semantic functions of the degree adverb *xãl3* ‘very’ in various types of *V/Adj-xãl3* constructions and the derivation of different semantic types of this construction in Zauzou within the framework of degree semantics (Hay et al 1999, Kennedy & McNally 2005, Kennedy & Levin 2008, Rappaport 2008, among others). The description is based on a documentation project of Zauzou. Most of the data in this paper are collected from the Jiangmo Dialect of Zauzou in Lanping County.

2. The semantics of *very*

Scalarity/gradability plays a significant role in both verbal and adjectival domains. It is considered as a property not just of adjectives, but of nouns, verbs, adverbs, and prepositions as well (Sapir 1944, Bolinger 1972, Kennedy & McNally 2005, among others). The study of degree word is closely associated with the exploration of the scalar semantics of gradable adjectives.

According to Klein (1980) and Kennedy & McNally (2005)’s analysis on the English degree word *very*, the central function of a degree word is **raising the standard of comparison**. Compare the bare ADJ and very-ADJ in English:

(1) *tall*: the height exceeds the average height of basketball players (comparison class:

basketball players)

very tall: the height exceeds the average height of just tall basketball players

(comparison class: tall basketball players)

Such an analysis only applies to gradable adjectives (e.g. big, happy), while non-gradable adjectives, such as *available* and *empty*, usually reject the modification by *very* (e.g. **very available*), or require extra explanation (e.g. *very empty*).

In Zauzou, the degree adverb *xãl3* not only applies to gradable adjectives, but also applies to gradable verbs, and even non-gradable verbs (i.e. dynamic verbs) as well.

3. Semantic types of *xãl3* in *V/Adj-xãl3* constructions

There are 6 common semantic types of *xãl3* in different *V/Adj-xãl3* constructions.

3.1 Prototypical function: raising the standard of comparison

xãl3 typically raises the standard of comparison if the predicate is a gradable adjective or verb (state verb and modal verb). Predicates of this type can appear in comparison.

- *Adj-xãl3*:

(2) tu33 ta55kẽ55 **ma33** **xãl3** zo31

3sg only **old** **very** PERF

“Only he is very old.”

- *V-xãl3*:

- State verb:

(3) **nõ55** **xãl3** to53 ia33 tẽõ55 kʰə55 a31 ŋæ53

Sick very RES.completive SUB.because soul call NEG assertive

“To call back one’s soul is not because that he is very sick”

- Modal verb:

(4) ta31pẽ33 **tʰo53** **xãl3** zo31

dress up **be capable of** **very** PERF

“very good at dressing up”

3.2 denoting the maximal value on an upper closed scale

When modifying degree achievement verbs (DAs) which involve an upper closed scale (Kennedy & McNally 2005), *xā13* usually denotes the maximal value on this closed property scale, which is glossed as ‘completely’.

(5) ā31 və13 **tsʰə31** **xā13** zə31

Dish DET cool/become cool very/completely PERF

“this dish is very cold/this dish is cooled completely“

(6) eyi13li33 læ31 **me13** **xā13** zə31

pear CL ripe/ripen very/completely PERF

“this pear is very ripe/this pear is ripen completely“

The function of denoting maximal degree of change is not conflict with the function of standard-raising, as reflected by the ambiguity in (5)-(6). For DAs with an open scale, e.g. warm, lengthen, the maximal degree reading of ‘completely’ is ruled out:

(7) ā31 və13 **tsʰə33** **xā13** zə31

Dish DET warm very PERF

“the dish is very hot/? The dish has warmed a lot/* the dish is completely warmed up“

3.3 denoting a long time duration

Verb plus *xā13* may denote that the run time of the event described by the verbs is very long:

(8) tu33 **ŋæ33** **xā13** zə31

3sg see very PERF

“he has been watching for a long time”

3.4 denoting incremental volume/extent of argument

When the verb is an incremental theme verb (Hay et al 1999, Kennedy & Levin 2008, Rappaport 2008, Kennedy 2012) or a directed motion verb in *V-xãl3*, *xãl3* is preferably interpreted as denoting the incremental volume/extent of the argument of the verb, which can be the actor/undergoer of the verb or the path in a motion event. However, in many cases, the ‘long duration’ interpretation for *xãl3* is also acceptable, as can be seen in (9)-(10):

(9) Directed motion verbs:

a. tuq33 **ta33** **xã13** zo31

3sg **run** **very** PERF

“He has run for a long distance/for a long time”

b. ŋu33 **la13** **xã13** zo31

1sg ascend very PERF

“I am very tired to climb up/?it took me a long time to climb up/? I climbed up a long distance”

(10) incremental theme verbs:

a. i33ts^hã31 ka33 liã33k^hue33 kẽ33 ts^ho31

one round LOC two dollars only take money

u13 ε31 **u13** **xã13** to53 zo31pe33

RES.successful also **win** **very** RES.completive SPF.assertive

“He can win as much as two dollars/for a long time in one game”

b. tuq33 **tsu33** **xã13** zo31

3sg eat very PERF

“he ate a lot/? has been eating for a long time”

The allowance for both temporal and incremental theme interpretations instantiates the homomorphism between event and part as described in Krifka (1998). Whereas the asymmetrical distribution of the temporal reading and the incremental theme reading suggests that the measure function of *xãl3* is associated with the incremental theme argument, rather than the incremental theme verb (Rappaport 2008, Kennedy & Levin 2008, Kennedy 2012).

3.5 denoting incremental force

It is also very common for the degree adverb *xãl3* to modify certain types of non-scalar verbs and increases the extent of force involved in the action. Two kinds of verbs are subsumed to this type: *verbs of exerting force* and *weather verbs* (Levin 1993).

(11) verbs of exerting force:

tuɣ33 pẽ53 xã13 zo31

3sg push very PERF

“He pushed someone down to the ground”

(12) weather verbs:

tə31 tẽhã13 tẽhã13 nẽ55 mã33 læ55 xã13 nẽ55

one time time TOP sky shine very DECL

“Sometimes the sun is very strong”

The incremental extent of force exerted on the object is normally associated with a resulting event that is caused by the incremented force involved in the action denoted by the verb. When *xãl3* is applied to weather verbs, it typically increases the extent of natural force.

3.6 denoting incremental frequency

The last function of the degree adverb *xãl3* in Zauzou is indicating the relatively high frequency of the entire event when it modifies achievement verbs.

(13) tuɣ33 tʰuɣ53 i55 xã13 zo31

3sg exit DIR very PERF

“He exits (the room) a lot of times”

Verbs that are associated with the incremental frequency reading all have the features of [+punctual] and [+telic], which are most typically exemplified by directed motion verbs that entail a two-point path scale (e.g. *enter, exit, leave, reach*, etc).

4. A scalar analysis of Zauzou *V/Adj-xãl3* constructions

One goal of this article is to demonstrate that the meaning of *V/Adj-xãl3* construction is largely predictable from the scalar properties of the predicate. Different classes of scales thus play a significant role in accounting for the semantic variations found in the *V/Adj-xãl3* constructions.

9 types of gradable predicates (gradable adjectives, state verbs, modal verbs, degree achievement verbs (DAs), directed motion verbs, incremental theme verbs, verbs of exerting force, weather verbs, and achievement verbs) are associated with 5 types of scales:

1) Property scale (Rappaport 2008:17)

The predicate can occur in comparatives; predicates lexically specify a scale

e.g. a warming event necessarily involves an increase in the value of [warm]

2) Volume/extent scale

Kennedy (2012): Incremental creation, incremental consumption, incremental affect

3) Time scale

Verbs with the feature of [+Durative]

4) Force scale

5) Frequency scale

The above five scales are associated with the 6 distinct semantic classes of intensifier phrases involving *xãl3* as described above. The predictive model arriving at the 6 semantic classes of *V/Adj-xãl3* constructions from the above five scales are presented in Table 1:

Table 1: Scalar features and the functions of *xãl3* in different classes of predicates in *V/Adj-xãl3* constructions

Scalar feature	[+property scale]		[-property scale]			
	[-time scale]	[+time scale]	[-time scale]	[+time scale]		
			[+frequency scale]	[+volume/extent scale]	[-volume/extent scale]	
					[+force scale]	[-force scale]
Verb classes	Gradable adjectives	Degree achievement verbs (closed scale)	Achievement verbs	Incremental theme verbs	Verbs of exerting force	Perception verbs (<i>ŋæ33</i> 'see')
	State verbs			Directed motion verbs	Weather verbs	
	Modal verbs					
Function of <i>xã13</i>	raising the standard of comparison	denoting the maximal value on an upper closed scale	denoting the relatively high frequency of the event	denoting incremented volume/extent on argument	denoting incremented force	Denoting long time duration

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